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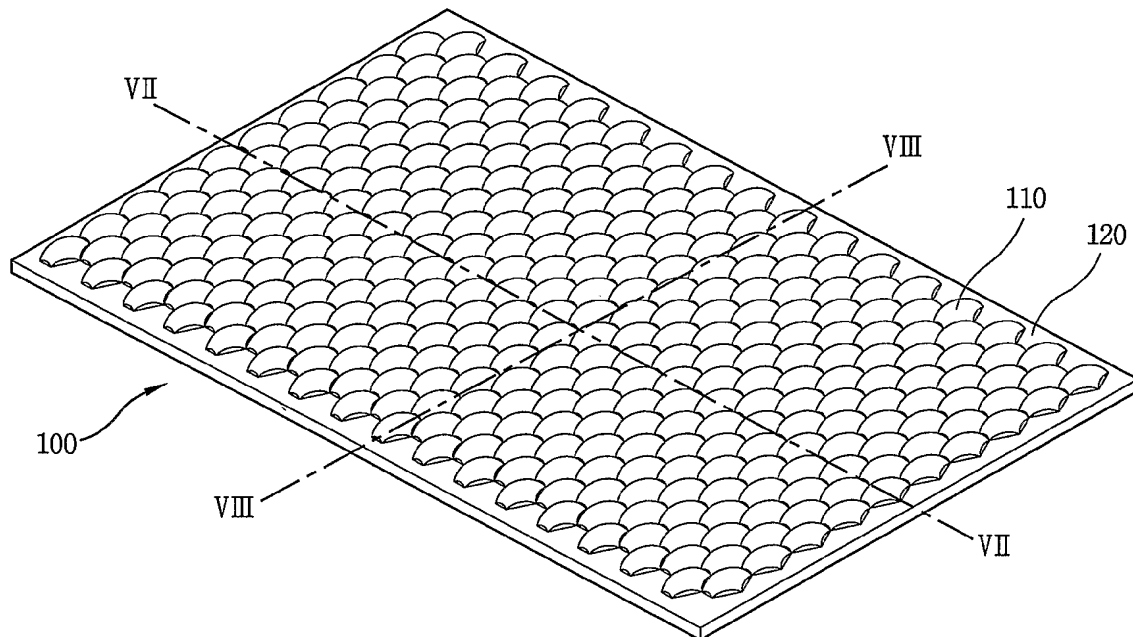
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(54) Title: ASPHERICAL MICROLENS ARRAYS AND FABRICATION METHOD THEREOF AND APPLICATIONS USING THE SAME



(57) Abstract: An aspherical microlens arrays comprise a base, and a plurality of aspherical microlens arranged on the base and having different curvature radiuse and conic coefficient respectively, along two orthogonal axes on the base perpendicular to an optical axis, by which a degree of refraction, namely, a numerical aperture can be easily adjusted depending on each axial direction, a spherical aberration can be reduced, and concentration efficiency can be improved. In addition, in case of applying the aspherical microlens arrays to a projection screen, an image sensor, or the like, it is advantageous to improve sensitivity and resolution thereof.

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